

ABSTRACT

A phase-locked loop circuit is proposed for providing an output signal having a frequency depending on the frequency of a reference signal, the circuit including means for deriving a feedback signal from the output signal, means for providing a control signal indicative of a phase difference between the reference signal and the feedback signal, means for controlling the frequency of the output signal according to the control signal, and means for causing the circuit to enter a lock condition when the reference signal and the feedback signal have the same frequency and a pre-defined phase difference. In the circuit of an embodiment of the invention, the means for causing the circuit to enter the lock condition includes means for conditioning the control signal to have an instantaneous value substantially zero in the lock condition by means of a conditioning signal consisting of a series of pulses each one corresponding to the pre-defined phase difference.